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PHOTOGRAPHIC INTERPRETATION REPORT



INSTITUTE (TsAGI)

RAMENSKOYE, USSR

Declass Review by NIMA/DOD

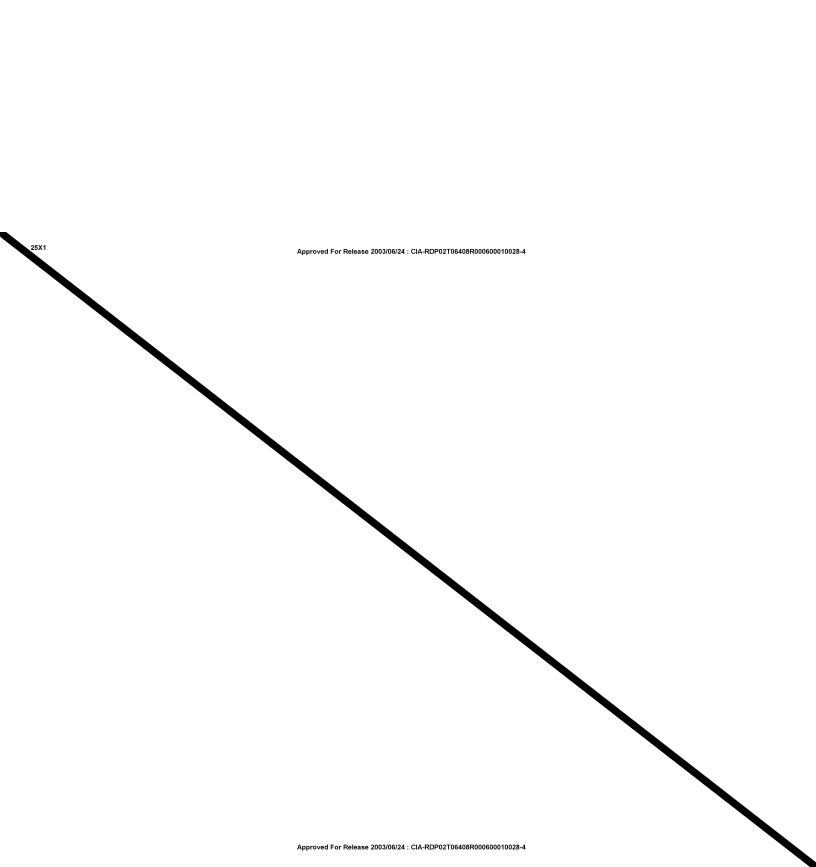
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	CENTRAL AEROH	YDRODYNAMIC INSTITUTE (TsAGI), RA	MENSKOYE, USSR		
	INTRODUCTION	revealed no new construction or changes in previously existing facilities.	1962 photography of provided the first usable		
	ady of the chronological development of the unic Institute (TsAGI) imeni N. Ye. Zhukov-	1947	photographic coverage of TsAGI since This photography revealed a continued expansion of TsAGI facilities. Significant		
skiy [The installation is loc	Ramenskoye Aircraft Experimental Plant).	The first ground photography of TsAGI was obtained in Coverage consisted of a single photograph of the installation	construction observed for the first time included 4 laboratory buildings (items 2, 5, 8, and 75), a large bottle farm (item 30), a large shop building (item 60), 2 spray ponds (items 26 and 41),		
It is situated on a mai Ramenskoye Airfield. (work of hard-surfaced	Moskva, USSR, at 55-35N 038-07E (Figure 1). in rail line and is adjacent to the Moscow/ Other transportation services include a net- il roads and the Moskva River, a major	taken from a position some distance west of the western perimeter fence. As seen on this photograph, the installation had apparently undergone little or no significant change since	and an aircraft engine test building (item 17). In addition, 2 older laboratory buildings (items 29 and 35) had been enlarged.		
	ydrodynamic Institute (hereafter referred to	1953 Ground photography of taken from approximately the same angle and position as that of revealed	1963 Significant construction occurring byincluded the completion of a shop building (item 62), the addition of 2 more		
all the installations a Soviet Union. It has field, and in recent ye aerospace field. The fu	n, TsAGI) is one of the most important of ssociated with aerospace programs in the been the Soviet leader in the aerodynamic ars it has been considered the leader in the unctions of TsAGI are probably very similar lucted in the United States by the National Administration.	that a large expansion program was under way. Many new facilities had already been completed, and others were under construction. Significant new construction included 5 laboratory buildings (items 9, 22, 29, 33, and 56) and a large combination laboratory/administration building (item 70). Construction of 2 bottle farms (items 45 and 46) and of the underground laboratory (item 53) were nearing completion.	bottle farms (items 38 and 39), and the completion of additions to a laboratory building (item 75) and to a large shop building (item 67). By a laboratory building (item 34), an administration/engineering building (item 78), an administration building (item 81), and an engineering/shop building (item 86) were all in very early stages of construction.		
recent expansion to the 200 acres. A building-by presented graphically in which also contains interesting the the structures and com-	TsAGI covers approximately 300 acres, and e north will incorporate an additional 150 to y-building construction history of TsAGI is in Figure 4 and in tabular form in Table 1 terpretations of the probable functions of all ments on various details of the chronology. the installation as it appeared in are shown on Figures 2 and 3, respections.	1956 Ground photography of	A large laboratory building (item 55) and an additional bottle farm (item 40) were in very early stages of construction when first seen in The engineering/shop building (item 86) was completed in and construction had begun on a new section of the laboratory/administration building (item 71).		
from all available aerial mentioned in the te to Figure 4.	a contained in this report has been compiled and ground photography. All item numbers ext are listed in Table 1 and are keyed	Railroad, double tack Railroad, single tack Floor A TO	It became evident during 1965 that TsAGI was in the initial process of another large-scale expansion program. A probable aircraft engine test building (item 15), an assembly building (item 90), and an assembly/shop building (item 91) were in very early stages of construction in The assembly building (item 90) and the assembly/shop building (item 91) are located in an		
	TS OF THE CHRONOLOGICAL OPMENT OF THE CENTRAL		area which has apparently been annexed by TsAGI for expansion purposes. This area borders on the northern edge of the original installation, and much of it has been fenced.		
AEROH	YDRODYNAMIC INSTITUTE	M GENTRO MAIG	1966 Construction completed during 1966 consisted mainly of a		
	th time it contained 8 major structures, 4	Podolak	laboratory building (item 34) and 2 administration buildings (items 78 and 81). A large laboratory building (item 55, first observed under construction in and a bottle farm were also completed		
transformer yard (iten	ray ponds (items 27 and 42), and a large of 7). Among the major structures present the large laboratory building (item 37) and		during the year. No new construction was observed; however, considerable progress was made on the probable aircraft engine test building (item 15), the assembly building (item 90), and the		

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Table 1. Functions, Dimensions, Roof Cover, and Chronology of Structures at the Central Aerohydrodynamic Institute Dimensions (ft) Roof Cover Date First (sq ft) Observed* Probable Function Length Width Height Length Width Height Utility bldg Laboratory bldg Utility bldg Utility bldg Laboratory bldg Laboratory bldg Transformer yard 2,000 79,500 6,300 6,975 16,875 21,175 A total of 48 horizontal bottles (each
t in diam) aligned in
2 rows of 24 bottles each
A total of 52 horizontal bottles (each 100 300 45 25X1 70 Irregular 155 Irregular Irregular A total of 52 horizontal bottles (each in diam) aligned in 2 rows of 28 bottles each 25X1 Enclosed area contains 2 small bldgs for service and repair of transformers 3 nearby forced-draft cooling towers sorve the laboratory Compressor trol bldg Utility bldg Utility bldg 8,125 2,475 4,750 Serves items 44, 45 and 46 55 95 Laboratory bldg 285 120 60 28,200 48 49 Probably controls the ventilation for the underground laboratory (item 53) Laboratory bldg Utility bldg Utility bldg Admin/engineerin bldg Utility bldg Utility bldg Utility bldg 8,400 1,000 1,400 50 51 52 53 185 30 Probably consists of wind tunnels and other laboratory facilities nidg Storage bldg, revetted Utility bldg Aircraft engine test bldg Utility bldg
Laboratory bldg
Laboratory bldg
Laboratory bldg
Utility bldg
Possible compre 15 3,700 58,750 15,100 8,400 3,200 54 55 56 57 58 59 Early stage of construction prec determination of number, size, and type of test cells 28,000 Fuel storage and con-trol facility Aircraft engine test bldg 16 8,000 44,750 1,950 26,250 19,875 1,350 5,400 17,500 98,600 bldg Shop bldg Utility bldg Shop bldg Warehouse Area is served by a rail spur 85 50 60 61 62 63 64 65 66 67 Bldg contains at least 1 large test cell and is equipped with a noise suppressor approximately 8,175 35 25X1 Utility bldg Utility bldg Utility bldg Laboratory bldg Utility bldg Laboratory bldg --85 1,050 1,200 83,150 500 20,000 25×1 20 125 Utility bldg Utility bldg Laboratory/admin Laboratory/admin 3,825 1,125 25,900 46,050 9,300 3,500 50 68 69 70 71 72 78 74 --60 50 35 Laboratory b Utility bldg Utility bldg Utility bldg Spray pond Spray pond Utility bldg Laboratory b Bottle farm Bldg enlarged between ⊉5X1 110 105 Shop bldg Control bldg for item 74 Helicopter rotor test bec Consists of a large (75 x 75 x 40 ft b)
probable steel cage anchored on a
concrete apron
Bldg enlarged between 35 40 25X1 25X1 75 76 50 24,875 7,800 --Laboratory bldg
Utility bldg
Laboratory bldg
Laboratory bldg
Laboratory bldg
Shop bldg
Laboratory bldg
Bottle farm Irregular 75 Irregular Irregular Irregular Irregular Irregular 32,850 1,500 44,050 The bldg enclosing the test section measures 110 x 55 x 80 ft h 70 50 65 78 Admin/engineering 41,475 93,900 7,800 871,200 bldg Utility bldg Admin bldg Admin bldg Warehouse Irregular 140 60 25,875 Bldg enlarged between 25X1 Irregular 170 120 Irregular 25X1 25X1 Admu, bldg Utility bldg ~~sineering/shop Irregular 100 50 --37,450 7,000 comprises 9 bottles coat of 28 horizontal bottles (each in dian) aligned in 2 rows of 2 tiers each; each tier comprises 9 bottles total of 38 horizontal bottles (each dian) aligned in 2 rows of 2 tiers each; each tier comprises 9 bottles Bottle farm Engineering bldg Admin bldg Admin bldg Admin bldg 25X1 Irregu 200 175 84,725 9,000 7,000 8,725 148,225 85,250 8,800 6,000 3,800 3,400 Bottle fam Admin bldg
Assembly bldg
Assembly/shop bldg
Warehouse
Warehouse
Warehouse
Warehouse
Warehouse Early stage of construction Early stage of construction Probable temporary bldg Probable temporary bldg Probable temporary bldg Probable temporary bldg 25X1 Spray pond Spray pond Pump and valve house 41 42 43 3,200 of a covered water res A total of 88 horizontal bottles (each 25X1 25X1

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*Completion dates are not stated because of gaps in photographic coverage. Most of the small structures were apparently complete when first observed. Where determinable, completion dates of the major structures are presented in the text.

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25X1

25X1

25X1

25X1

25X1

FIGURE 4. LINE DRAWING SHOWING THE CHRONOLOGICAL DEVELOPMENT OF THE CENTRAL AEROHYDRODYNAMIC INSTITUTE. $-\ 5\ -$

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REFERENCES
MAPS OR CHARTS
ACIC series, scale 1:200,000
REQUIREMENT CIA. C-DI5-82,973
NPIC PROJECT

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